

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 42P18770

(maximum 12 characters)

First Named Inventor Koning et al.

Title: MICROELECTRONIC PACKAGES INCLUDING NANOCOMPOSITE DIELECTRIC BUILD-UP MATERIALS AND NANOCOMPOSITE SOLDER RESIST

Express Mail Label No. EV320117602US

ADDRESS TO: **Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450**

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. X **Fee Transmittal Form (e.g., PTO/SB/17)**
(Submit an original and a duplicate for fee processing)
2. **Applicant Claims Small Entity Status. (37 CFR 1.27)**
3. X **Specification (Total Pages 20)**
(preferred arrangement set forth below)
 - Descriptive Title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference sequence listing, a table,
or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. X **Drawings(s) (35 USC 113) (Total Sheets 4)**
5. **Oath or Declaration (Total Pages)**
 - a. Newly Executed (Original or Copy)
 - b. Copy from a Prior Application (37 CFR 1.63(d))
(for Continuation/Divisional with Box 18 completed)
 - i. **DELETIONS OF INVENTOR(S)** Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
 - c. Unsigned.
6. **Application Data Sheet. (37 CFR 1.76)**
7. **CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)**
8. **Nucleotide and/or Amino Acid Sequence Submission**
(if applicable, all necessary)
 - a. **Computer Readable Form (CRF)**
 - b. **Specification Sequence Listing on:**
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper
 - c. **Statements verifying identity of above copies**

ACCOMPANYING APPLICATION PARTS

9. _____ Assignment Papers (cover sheet & documents(s))
10. _____ a. Separate 37 CFR 3.73(b) Statement (where there is an assignee)
 _____ b. Power of Attorney
11. _____ English Translation Document (if applicable)
12. _____ a. Information Disclosure Statement (IDS)/PTO-1449 (or PTO/SB/08)
 _____ b. Copies of IDS Citations
13. _____ Preliminary Amendment
14. X **Return Receipt Postcard (MPEP 503) (Should be specifically itemized)**
15. _____ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. _____ Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- 17A. _____ Claim for Foreign Priority
- 17B. X **Other: Certificate of mailing with copy of postcard signed by attorney and express mail label number.**

17C. X Pursuant to 37 C.F.R. 1.136(a)(3), applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 C.F.R. 1.16 and 1.17, to Deposit Account No. 02-2666.

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title (e.g., by way of preliminary amendment), or in an Application Data Sheet Under 37 C.F.R. 1.76:

_____ Continuation _____ Divisional _____ Continuation-in-part (CIP)
 Of Prior Application No.: _____ Examiner _____ Group Art Unit _____
 (which is a _____ continuation/ _____ divisional/ _____ CIP of prior application no. _____,
 which is a _____ continuation/ _____ divisional/ _____ CIP of prior application no. _____ (List entire chain of priority)

Applicant(s): Also include a Preliminary Amendment to amend the specification to claim priority.
For CONTINUATION AND DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. Correspondence Address
 _____ Customer Number or Bar Code Label _____
 or _____ (Insert Customer No. or Attach Bar Code Label here)
 X Correspondence Address Below
 NAME Todd M. Becker
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
 ADDRESS 12400 Wilshire Boulevard
Seventh Floor
 CITY Los Angeles STATE California ZIP CODE 90025
 Country U.S.A. TELEPHONE (206) 292-8600 FAX (206) 292-8606

Name (PRINT/TYPE): Todd M. Becker Registration No.: 43,487
 Signature: Todd M. Becker Date: 3-30-04

17264 U.S. PTO
033004

FEE TRANSMITTAL FOR FY 2004

(FY 2004 Begins 10/01/2003)

TOTAL AMOUNT OF PAYMENT (\$) 1590.00

Complete if Known:

Application No. New Patent Application
Filing Date Concurrently herewith
First Named Inventor Koning et al.
Examiner Name Not Yet Assigned
Art Unit Not Yet Assigned
Attorney Docket No. 42P18770

☐ Applicant claims small entity status. See 37 CFR 1.27.

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account

Deposit Account Number : 02-2666

Deposit Account Name: _____

☒ The Director is Authorized to do the following with respect to the above-identified Deposit Account:

☐ Charge fee(s) indicated below.

☒ Credit any overpayments.

☒ Charge any additional fees during the pendency of this application.

☒ Any concurrent or future reply that requires a petition for extension of time should be treated as incorporating an appropriate petition for extension of time and all required fees should be charged.

☐ Charge fee(s) indicated below except for the filing fee.

FEE CALCULATION

1. BASIC FILING FEE

| Large Entity | | Small Entity | | Fee Description | Fee Paid |
|--------------|----------|--------------|----------|------------------------------------|------------|
| Code | Fee (\$) | Code | Fee (\$) | | |
| 1001 | 770 | 2001 | 385 | Utility application filing fee | <u>770</u> |
| 1002 | 340 | 2002 | 170 | Design application filing fee | _____ |
| 1003 | 530 | 2003 | 265 | Plant filing fee | _____ |
| 1004 | 770 | 2004 | 385 | Reissue filing fee | _____ |
| 1005 | 160 | 2005 | 80 | Provisional application filing fee | _____ |

SUBTOTAL (1) \$ 770.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| | | | Extra Claims | Fee from below | Fee Paid |
|--------------------|-----------|----------|--------------|----------------|--------------|
| Total Claims | <u>56</u> | - 20** = | <u>36</u> | X <u>18</u> | = <u>648</u> |
| Independent Claims | <u>5</u> | - 3** = | <u>2</u> | X <u>86</u> | = <u>172</u> |
| Multiple Dependent | | | | | = _____ |

**Or number previously paid, if greater; For Reissues, see below.

| Large Entity | | Small Entity | | Fee Description |
|--------------|----------|--------------|----------|---|
| Code | Fee (\$) | Code | Fee (\$) | |
| 1202 | 18 | 2202 | 9 | Claims in excess of 20 |
| 1201 | 86 | 2201 | 43 | Independent claims in excess of 3 |
| 1203 | 290 | 2203 | 145 | Multiple dependent claim, if not paid |
| 1204 | 86 | 2204 | 43 | **Reissue independent claims over original patent |
| 1205 | 18 | 2205 | 9 | **Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) \$820.00

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

| <u>Large Entity</u> | | <u>Small Entity</u> | | <u>Fee Description</u> | <u>Fee Paid</u> |
|---------------------|-----------------|---------------------|-----------------|--|-----------------|
| <u>Fee Code</u> | <u>Fee (\$)</u> | <u>Fee Code</u> | <u>Fee (\$)</u> | | |
| 1051 | 130 | 2051 | 65 | Surcharge - late filing fee or oath | _____ |
| 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or cover sheet | _____ |
| 1053 | 130 | 1053 | 130 | Non-English specification | _____ |
| 1812 | 2,520 | 1812 | 2,520 | For filing a request for ex parte reexamination | _____ |
| 1813 | 8,800 | 1813 | 8,800 | Request for inter parties reexamination | _____ |
| 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action | _____ |
| 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action | _____ |
| 1251 | 110 | 2251 | 55 | Extension for reply within first month | _____ |
| 1252 | 420 | 2252 | 210 | Extension for reply within second month | _____ |
| 1253 | 950 | 2253 | 475 | Extension for reply within third month | _____ |
| 1254 | 1,480 | 2254 | 740 | Extension for reply within fourth month | _____ |
| 1255 | 2,010 | 2255 | 1,005 | Extension for reply within fifth month | _____ |
| 1401 | 330 | 2401 | 165 | Notice of Appeal | _____ |
| 1402 | 330 | 2402 | 165 | Filing a brief in support of an appeal | _____ |
| 1403 | 290 | 2403 | 145 | Request for oral hearing | _____ |
| 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding | _____ |
| 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable | _____ |
| 1453 | 1,330 | 2453 | 665 | Petition to revive - unintentional | _____ |
| 1501 | 1,330 | 2501 | 665 | Utility issue fee (or reissue) | _____ |
| 1502 | 480 | 2502 | 240 | Design issue fee | _____ |
| 1503 | 640 | 2503 | 320 | Plant issue fee | _____ |
| 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | _____ |
| 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) | _____ |
| 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt | _____ |
| 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | _____ |
| 1809 | 770 | 2809 | 385 | For filing a submission after final rejection (see 37 CFR 1.129(a)) | _____ |
| 1814 | 110 | 2814 | 55 | Statutory Disclaimer | _____ |
| 1810 | 770 | 2810 | 385 | For each additional invention to be examined (see 37 CFR 1.129(b)) | _____ |
| 1801 | 770 | 2801 | 385 | Request for Continued Examination (RCE) | _____ |
| 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application | _____ |
| 1504 | 300 | 1504 | 300 | Publication fee for early, voluntary, or normal pub. | _____ |
| 1505 | 300 | 1505 | 300 | Publication fee for republication | _____ |
| 1803 | 130 | 1803 | 130 | Request for voluntary publication or republication | _____ |
| 1808 | 130 | 1808 | 130 | Processing fee under 37 CFR 1.17(i) (except provisionals) | _____ |
| 1454 | 1,330 | 1454 | 1,330 | Acceptance of unintentionally delayed claim for priority | _____ |

Other fee (specify) _____

Other fee (specify) _____

SUBTOTAL (3) \$0.00

*Reduced by Basic Filing Fee Paid

SUBMITTED BY:Typed or Printed Name: Todd M. BeckerSignature: Todd M. Becker Date: 3-30-04Reg. Number: 43,487 Telephone Number: (206) 292-8600

Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Our Reference: 42P18770

Patent

MICROELECTRONIC PACKAGES INCLUDING NANOCOMPOSITE DIELECTRIC
BUILD-UP MATERIALS AND NANOCOMPOSITE SOLDER RESIST

Inventors: Paul A. Koning
James C. Matayabas, Jr.

Respectfully submitted,

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP

Todd M. Becker

Todd M. Becker

Reg. No. 43,487

"Express Mail" mailing label number: EV320117602US

Date of Deposit: March 30, 2004

I hereby certify that I am causing this paper or fee to be deposited with
the United States Postal Service "Express Mail Post Office to Addressee"
service on the date indicated above and that this paper or fee has been
addressed to Mail Stop Patent Application, Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450

Yuko Tanaka

(Typed or printed name of person mailing paper or fee)

Y. Tanaka March 30, 2004
(Signature of person mailing paper or fee) (Date signed)

BEST AVAILABLE COPY

| | | |
|--|--|---|
| Serial/Patent No.: <u>New Patent Application</u> | | Filing/Issue Date: <u>Herewith</u> |
| Client: <u>Intel Corporation</u> | | |
| Title: <u>MICROELECTRONIC PACKAGES INCLUDING NANOCOMPOSITE DIELECTRIC BUILD-UP MATERIALS AND NANOCOMPOSITE SOLDER RESIST</u> | | |
| BSTZ File No.: <u>42P18770</u> | Atty/Secty Initials: <u>TMB/lma/ytt</u> | |
| Date Mailed: <u>March 30, 2004</u> | Docket Due Date: <u>*****</u> | |
| The following has been received in the U.S. Patent & Trademark Office on the date stamped hereon: | | |
| <input type="checkbox"/> Amendment/Response (____ pgs.) | <input checked="" type="checkbox"/> Express Mail No.: <u>EV320117602US</u> | <input checked="" type="checkbox"/> Check No. <u>003445</u> |
| <input type="checkbox"/> Appeal Brief (____ pgs.) (in triplicate) | <input type="checkbox"/> _____ Month(s) Extension of Time | Amt: <u>\$1590.00</u> |
| <input checked="" type="checkbox"/> Application - Utility (<u>20</u> pgs., with cover and abstract) | <input type="checkbox"/> Information Disclosure Statement & PTO-1449 (____ pgs.) | <input type="checkbox"/> Check No. _____ |
| <input type="checkbox"/> Application - Rule 1.53(b) Continuation (____ pgs.) | <input type="checkbox"/> Issue Fee Transmittal | Amt: _____ |
| <input type="checkbox"/> Application - Rule 1.53(b) Divisional (____ pgs.) | <input type="checkbox"/> Notice of Appeal | |
| <input type="checkbox"/> Application - Rule 1.53(b) CIP (____ pgs.) | <input type="checkbox"/> Petition for Extension of Time | |
| <input type="checkbox"/> Application - Rule 1.53(d) CPA Transmittal (____ pgs.) | <input type="checkbox"/> Petition for _____ | |
| <input type="checkbox"/> Application - Design (____ pgs.) | <input checked="" type="checkbox"/> Postcard | |
| <input type="checkbox"/> Application - PCT (____ pgs.) | <input type="checkbox"/> Power of Attorney (____ pgs.) | |
| <input type="checkbox"/> Application - Provisional (____ pgs.) | <input type="checkbox"/> Preliminary Amendment (____ pgs.) | |
| <input type="checkbox"/> Assignment and Cover Sheet | <input type="checkbox"/> Reply Brief (____ pgs.) | |
| <input checked="" type="checkbox"/> Certificate of Mailing | <input type="checkbox"/> Response to Notice of Missing Parts | |
| <input type="checkbox"/> Declaration & POA (____ pgs.) | <input type="checkbox"/> Small Entity Declaration for Indep. Inventor/Small Business | |
| <input type="checkbox"/> Disclosure Docs & Orig & Copy of Inventor's Signed Letter (____ pgs.) | <input checked="" type="checkbox"/> Transmittal Letter, in duplicate | |
| <input checked="" type="checkbox"/> Drawings: <u>4</u> # of sheets includes <u>8</u> figures | <input checked="" type="checkbox"/> Fee Transmittal, in duplicate | |
| <input checked="" type="checkbox"/> Other: <u>Certificate of mailing with copy of return postcard signed by attorney</u> | | |